UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,469	04/22/2005	Fabio Vignoli	NL 021053	1612
24737 7590 08/01/2008 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 PRIA POLITICAL MANOR NIV 10510			EXAMINER	
			SAINT CYR, LEONARD	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2626	
			MAIL DATE	DELIVERY MODE
			08/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/532,469	VIGNOLI, FABIO
Office Action Summary	Examiner	Art Unit
	LEONARD SAINT CYR	2626
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by stal Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be to od will apply and will expire SIX (6) MONTHS fror tute, cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 30	his action is non-final. vance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.	
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the	ccepted or b) objected to by the he drawing(s) be held in abeyance. Se ection is required if the drawing(s) is older.	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreing a) All b) Some * c) None of: 1. Certified copies of the priority documed 2. Certified copies of the priority documed 3. Copies of the certified copies of the priority documed application from the International Burea * See the attached detailed Office action for a light	ents have been received. ents have been received in Applica riority documents have been receive eau (PCT Rule 17.2(a)).	tion No ved in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/30/08 has been entered.

Response to Arguments

2. Applicant's arguments filed 01/17/08 have been fully considered but they are not persuasive.

Applicant argues that neither Kaufholz nor Schroder et al., teach discarding utterance if not preceded by recognition of a predetermined keyword (Amendment, pages 13 - 16).

The examiner disagrees, Schroder et al., teach "an operated-control command which, after its input by the first user, allows voice commands from a second user to be accepted may be advantageously provided. The input command for controlling the voice-controlled system is used in method step 8, for example for menu control or navigation" (col.2, lines 39 - 44, col.3, lines 49 - 52). Allowing voice commands from different users for menu control or navigation implies discarding utterance if not

Application/Control Number: 10/532,469 Page 3

Art Unit: 2626

preceded by recognition of a predetermined keyword, since only predetermined commands that can control the navigation system are recognized.

Claim Rejections - 35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1- 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schroder et al. (US Patent 7,136,817) in view of Kaufholz (US Patent 7,050,971).

Regarding claims 1 and 9, Schroder et al. discloses a speech control unit for controlling an apparatus on basis of speech, comprising:

a microphone array, comprising multiple microphones for receiving respective audio signals (see col. 4, lines 44-46); and

a speech recognition unit for creating an instruction for the apparatus based on recognized speech items of the speech signal (see col. 4, lines 60-62, where the commands are recognized speech items), and a keyword recognition system for recognition of a predetermined, keyword that is spoken by the user and which is represented by a particular audio signal and the speech control unit being arranged to control the beam forming module (see col. 4, lines 60-62, where the commands are the predetermined keywords spoken), on basis of the recognition of the predetermined keyword, in order to enhance second components of the audio signals which represent a subsequent utterance originating from a second orientation of the user relative to the microphone array (see col. 2, lines 38-44);

wherein the recognition of the predetermined keyword at the second orientation

so that the subsequent utterance originating from the second orientation are accepted

("The input command for controlling the voice-controlled system is used in method step

8, for example for menu control or navigation"; col.2, lines 39 - 44, col.3, lines 49 - 52);

wherein the subsequent utterance originating from the second orientation will be

discarded if not preceded by the recognition of the predetermined keyword originating

from the second orientation ("The input command for controlling the voice-controlled

system is used in method step 8, for example for menu control or navigation"; col.2,

lines 39 - 44, col.3, lines 49 - 52; col.1, lines 44 - 47).

Schroder et al. do not disclose a beam forming module for extracting a speech

signal of a user; calibrates the beam forming module to allow the user from the first

orientation to the second orientation. However this feature is well known in the art as

indicated by Kaufholz. Kaufholz discloses a speech recognition apparatus that utilizes a

beam former that creates a higher performance and resolution of the resulting

microphone signal. The beam former may also select or even tract an audio source.

Typically, the loudest source signal is identified (see col. 5, lines 8-15). Thus, it would

have been obvious to one of ordinary skill in the art at the time the invention was .made

to utilize a beam forming module with the apparatus of Kaufholz for the benefit of a

higher performance and resolution of the resulting microphone signal.

Regarding claim 2, Schroder et al. further disclose that the keyword recognition

system is arranged to recognize the predetermined keyword that is spoken by another

user and the speech control unit being arranged to control the beam forming module, on basis of this recognition, in order to enhance third components of the audio signals which represent another utterance originating from a third orientation of the other user relative to the microphone array (see col. 2, lines 35-44).

Regarding claim 3, Schroder et al. further disclose that a first one of the microphones of the microphone array is arranged to provide the particular audio signal to the keyword recognition system (see col. 4, lines 56-62).

Regarding claim 4, Schroder et al. further disclose that the beam forming module is arranged to determine a first position of the user relative to the microphone array (see col. 4, lines 51-56).

Regarding claim 5, Schroder et al. further disclose that an apparatus comprising: a speech control unit for controlling the apparatus on basis of speech as claimed in claim 1 (see col. 4, lines 60-62); and

processing means for execution of the instruction being created by the speech control unit (see col. 4, lines 60-62).

Regarding claim 6, Schroder et al. discloses an apparatus as claimed in claim 5, characterized in being arranged to show that the predetermined keyword has been recognized (see fig. 1, col. 3, lines 32- 45).

Regarding claim 7, Schroder et al. discloses an apparatus as claimed in claim 6, characterized in comprising audio generating means for generating an audio signal in order to show that the predetermined keyword has been recognized (see fig. 1, col. 3, lines 32-45).

Regarding claim 8, Schroder et al. discloses a consumer electronics system comprising the apparatus as claimed in claim 5 (see col. 4, lines 63-65).

As per claims 10, and 15, Kaufholz further discloses that the user is informed by indications that the speech control unit is not active, is in active state and ready to receive the utterance or is in a state of calibration ("the controller can also check which part is active at the moment of receiving input from the user"; col.7, lines 42 - 54).

As per claims 11-14, and 16-19, Schroder et al., in view Kaufholz do not specifically teach that indications include an animal in a sleeping state indicating inactive state or in an awake state indicating active state; wherein the progress of the active state is indicated by angle of ears of the animal; wherein the ears are fully raised at a beginning of the active state, and fully down at an end of the active state; wherein the animal has an understanding look when the utterance is recognized and a puzzled look when the utterance is not recognized.

Application/Control Number: 10/532,469 Page 7

Art Unit: 2626

However, the examiner takes official notice that an artisan at the time of invention would have known that using an animal to indicate active and inactive state would help keep the controller informed of its current state.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEONARD SAINT CYR whose telephone number is (571)272-4247. The examiner can normally be reached on Mon- Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LS 07/30/08 Application/Control Number: 10/532,469 Page 8

Art Unit: 2626

/Richemond Dorvil/ Supervisory Patent Examiner, Art Unit 2626